

Comparisons of Job Characteristics

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	17.0	13.9	< Expanded education and/or training may be required
Building and Construction	4.0	16.6	16.9	0 Current knowledge level may be sufficient
Design	5.2	11.2	10.9	0 Current knowledge level may be sufficient
Mathematics	9.2	11.0	12.8	> Current knowledge level is likely sufficient
Physics	4.3	9.6	5.8	<< Extensive education and/or training may be required
Engineering and Technology	5.7	9.1	10.6	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	8.7	7.2	< A higher skill level may be required
Quality Control Analysis	5.9	8.7	7.9	< A higher skill level may be required
Repairing	3.4	8.4	4.4	<< Extensive development of skills in this area may be required
Troubleshooting	4.5	8.4	6.1	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	7.5	5.1	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	6.0	6.9	> Skill level is likely sufficient

Installation	1.7	5.5	2.0	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 71			
Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011) Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	11.8	7.1	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	11.5	4.6	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.2	9.8	<	Some improvement in abilities may be required
Finger Dexterity	7.6	11.1	7.7	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	11.1	6.8	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.0	4.0	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	7.4	3.6	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	6.3	3.6	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	5.8	3.7	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 66	
Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011) Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)			
Work Activities		Exclusivity of Activity	
Direct and coordinate activities of workers or staff		3	
Inspect project operations, or site to determine specification compliance		72	
Perform safety inspections in construction or resource extraction setting		46	
Plan or organize work		51	
Read blueprints		10	
Read specifications		23	
Read tape measure		41	
Read technical drawings		7	

Understand construction specifications	53
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

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Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Cameras	2
Cleaning equipment	11
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Dispensing tools	6
Earth moving machinery	11
Electrical measuring and testing equipment	7
Face and head protection	7
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Humidity and moisture measuring instruments	15
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Metal bending and forming machinery	17
Passenger motor vehicles	13
Personal communication devices	2
Power generators	16
Power tools	2
Pressure measuring and control instruments	10
Product and material transport vehicles	13

Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.